Mobile Facility (MF)
Logistics Review Group (LRG)
PMA-260C
Common Support Equipment
Presentation

Kenneth Sands
PMA260C2
Kenneth.sands@navy.mil
(301) 757-6842
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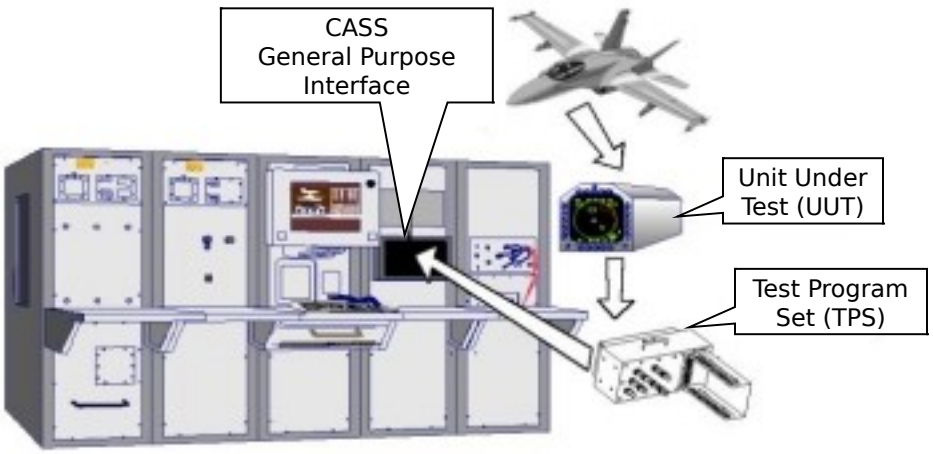
Outline

- Topics to be Discussed Today Include:
  - Who We Are and How We are Organized
  - APN-7/OPN-3 Prioritization Process
  - New CSE Procurement Programs with MF/MALS Application
  - Summary

Aviation Support Equipment
PMA 260

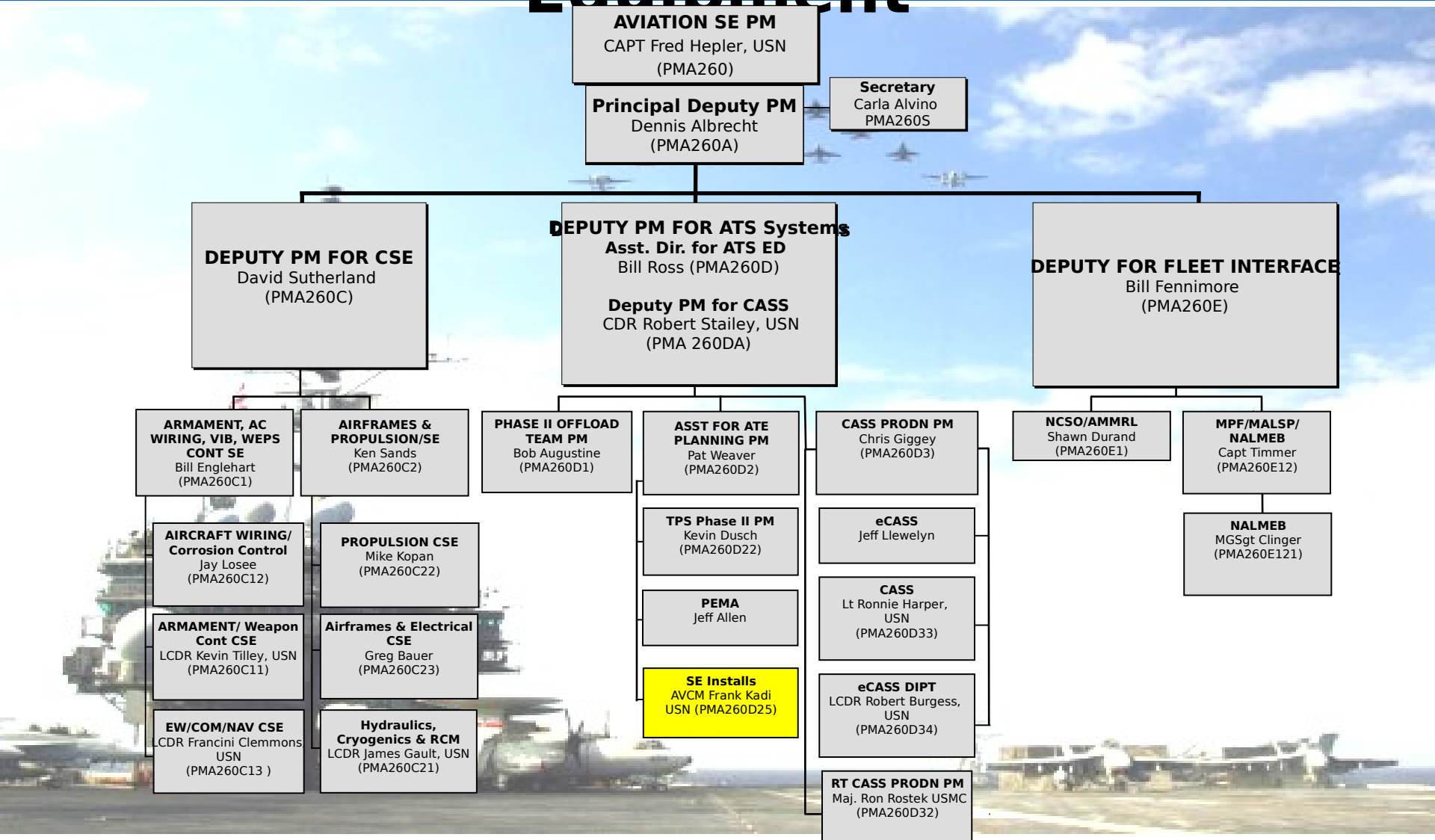
- Manages and provides Common aviation support equipment to support USN/USMC “O” and “I” Level maintenance activities
- 2,369 Total different end items of Common Aviation Support Equipment
  - 84 current active procurement programs from FY11 to FY16
- PMA 260 Program Office is divided into two main product areas:

Automated Test Systems – PMA260D



Common Ground Support Equipment – PMA260C

PMA260 Aviation Support Equipment



PMA 260C
Major Equipment Area Responsibilities

1. Propulsion CSE
2. Platform CSE (Handling SE, Deicers & Fire Trucks)
3. Hydraulics CSE
4. Electrical Servicing CSE
5. Air Conditioner CSE
6. Corrosion Control CSE
7. Armament Loading and Handling
8. Cryogenics CSE
9. Aircraft Wiring CSE
10. Vibration CSE
11. Electronic Warfare
12. Software Loading CSE
13. Communication/Navigation CSE
14. Instrumentation CSE
15. Non-Destructive Inspection CSE
16. Weapons Control CSE
17. Shop Equipment CSE

PMA 260C
IPT Structure (CSE)

PMA 260C
Deputy PM CSE
David Sutherland
DSN 757-6912

NAVAIR LKE Management
Jim Deffler DSN 624-1202
Tom Donnelly DSN 624-4384
Janet Dipasquale DSN 624-2107

PMA 260C1
Armament/A/C Wiring/Vibration/Weapons Control/Avionics
Bill Englehart
DSN 757-6867

PMA 260C2
Airframes/Propulsion/JPAVS E
Ken Sands
DSN 757-6842

PMA 260C11
Armament/Weap Cntrl CSE
LCDR Kevin Tilley
DSN 757-6866

NAVAIR LKH 1.3
Armament
Irene Bilyk
DSN 624-5391

NAVAIR LKH 1.3
Weapons Control
Diane Pullen
DSN 624-4294

CSS
Karen Branch
DSN 757-6876
Earl Mahan
DSN 757-5993
Maris Gultnieks
DSN 757-6873

PMA 260C12
Corr Cntrl/Vibration/ A/C Wiring CSE
Jay Losee
DSN 757-6874

NAVAIR LKH 1.3
Aircraft Wiring
Robert Hubbard
DSN 624-1654

NAVAIR LKH 1.3
Corrosion Control
John Garrett
DSN 624-4146

NAVAIR LKH 1.3
Vibration Analysis
Kevin Silverstein
DSN 624-2151

PMA 260C13
EW/CNI/SWL, NDI & INST CSE
LCDR Francini Clemmons
DSN 757-6845

NAVAIR LKH 1.3
EW/CNI
Rich McKenna
DSN 624-4234

NAVAIR LKH 1.3
Software Loading
Kevin Silverstein
DSN 624-2151

NAVAIR LKH 1.3
Instruments
Diane Pullen
DSN 624-4294

NAVAIR LKH 1.3
NDI
Marc Donohue
DSN 624-4702

PMA 260C22
Propulsion CSE
Mike Kopan
DSN 757-6844

NAVAIR LKH 1.3
JETI
AETS/TPTI
Brian Matushoneck
DSN 624-4414

NAVAIR LKH 1.3
Air Start/EHATE
John Garrett
DSN 624-4146

NAVAIR LKH 1.3
SETI/Torque
Bob Moyer
DSN 624-7193

NAVAIR LKH 1.3
Fire Trucks
Marc Donohue
DSN 624-4702

PMA 260C21
Cryogenics/ Hydraulics CSE /RCM Analyses
LCDR Gault
DSN 757-6845

NAVAIR LKH 1.3
Cryogenics
David Schmidt
DSN 624-4720

NAVAIR LKH 1.3
Hydraulics
Jim Ambrosino
DSN 624-7904

NAVAIR LKH 6.7
RCM
Mike Savarese
DSN 624-1412

PMA 260C23
Platform/ Electrical/AC CSE
Greg Bauer
DSN 757-6843

NAVAIR LKH 1.3
Platform/AC
Paul Durso
DSN 624-1923

NAVAIR LKH 1.3
Electrical/AC/ Heaters
John Hester
DSN 624-5065

NAVAIR LKH 1.3
DEICER Trucks
Kevin Silverstein
DSN 624-2151

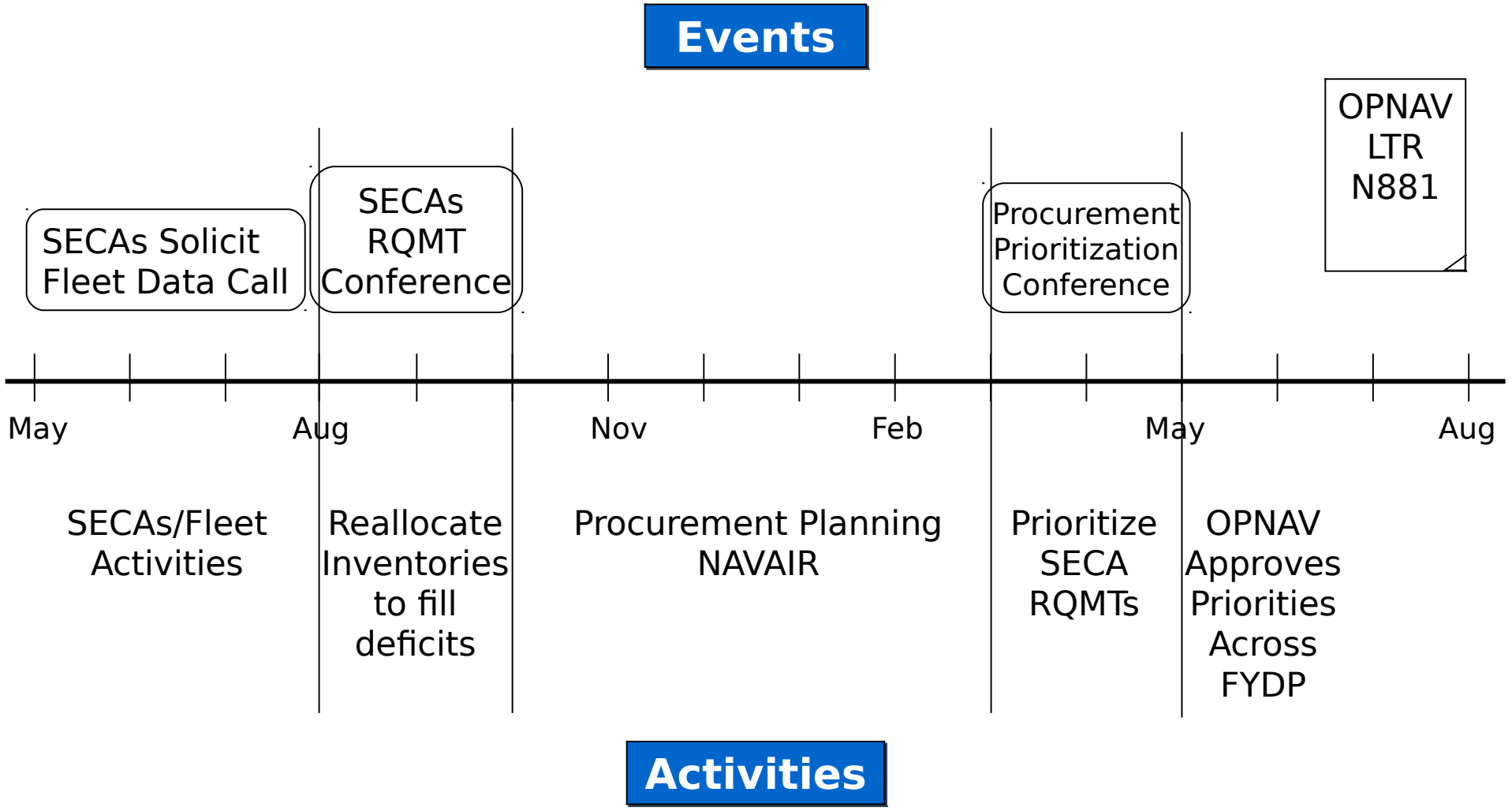
SE Procurement Buy List Prioritization Process

- The PMA260 CSE Procurement Plan is based on supporting USN/USMC Fleet needs as determined by the Prioritization Process

- The Prioritization Process is a year long process that culminates with the Prioritization Conference
  - 2011 Conference was held 21 - 24 March at NAWCAD Lakehurst
    - 96 SE Items discussed during FY11 conference

- Fleet Type Commander SE Controlling Authorities (SECAs) prioritize SE procurement requirements
    - CNAF (Includes CNAVRES)
    - CNATRA
    - NAVAIR ACC
    - NAVAIR (MPS & New Ship's Construction)
    - CNATT

SE Procurement Buy List Prioritization Process



CSE Test Set
Delivery Expectations

- Deliver CSE that has been fully tested and determined to be technically suitable for use in its intended environment
- Deliver CSE with adequate logistics support:
  - Technical manual
  - Spare Parts Support
  - Calibration Support
  - SE for SE
  - Repair of Repairables contract in place
  - Training
- User Logistics Support Summary (ULSS) for equipment delivered around 90 days prior to equipment and contains:
  - Maintenance Concept
  - Calibration Requirements
  - Work Unit Codes
  - Tech Manual info
  - Warranty Information
  - Etc…
- ULSS Documents are also located on the PMA260 eRoom website (https://eroom.navair.navy.mil/eroom/navair/pma-260)

CSE Procurements Currently Delivering or Will Be Delivering in the Near Term

Large Aqueous Parts Washer
NIIN: 01-566-3515

Overview

- Shore based I-level maintenance equipment used to clean various A/C and SE components
- Uses heated high-pressure water in conjunction with a biodegradable detergent to remove dirt, grime, oil, grease, and fluorescent particles from materials being cleaned
- Replaces legacy F4000 parts washer (01-428-5831) at shore sites

Solution

- Fleet surveys determined that large parts washers ashore should be replaced with a like item while AIMDs afloat would be better supported with smaller sink aqueous type units
- The Large Aqueous Parts Washer replaces obsolete legacy parts washer equipment that are hard site installed in MALS 500 division locations

Procurement & Installation Plan

- Contract awarded to Better Engineering Incorporated, of Baltimore, MD
- 43 units have been procured
- IOC May 2010
- MALS 24 Kaneohe Bay unit was installed in Sept 10

Large Aqueous Parts Washer (LAPW) Delivery/Installation Schedule

Remaining USMC Site FY11 / 12 Planned Installs

ACTIVITY NAME	LOCATION	INSTALL DATES
MALS-31	BEAUFORT, SC	JUL 11
MALS-13	YUMA, AZ	JUL 11
MALS-11	MIRAMAR, CA	AUG 11
MALS-16	MIRAMAR, CA	Aug-11
MALS-39	CAMP PENDLETON, CA	AUG 11
MALS-49	STEWART, NY	SEP 11
MALS-14	CHERRY PT, NC	Oct-11
MALS-26	NEW RIVER, NC	Oct-11
MALS-29	NEW RIVER, NC	Oct-11
MALS-36	OKINAWA, JAPAN	Nov-11
MALS-12	IWAKUNI, JAPAN	Nov-11

Agitated Solvents Parts Washer
NIIN: 01-572-9921

Overview

- Intermediate maintenance level solvents parts washer used to clean corrosive sensitive components such as wheel bearing assemblies and aircraft engine components
- Will be installed at land and vessel 500 Division work centers
- Replaces the Agitated Platform Degreaser NIIN: 01-309-6626

Solution

- Contract awarded to Clarus Technologies, Bellingham, WA in Nov 2008
- 91 units have been procured and are being delivered at rate of 4 per month

Procurement & Installation Plan

- IOC was April 2011; Installs continue until Jul 2014
- MF assets are being staged at Lakehurst until required for install
  - (1) unit per TW-05/A & TW-06/B, Tire & Wheel Van (22 total)
    - 16 MALS vans
    - 6 MPS vans (Note validating requirement for 7th MF at Blount Island.
- Allocations provided for 4 units MALS TSA 500 Division at (14/26/29/39).
  - No MFs at sites.
  - Validating requirement within SEMS.

Agitated Solvents Parts Washer
NIIN: 01-572-9921

Overview

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- Will be installed at land and vessel 500 Division work centers
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Solution

- Contract awarded to Clarus Technologies, Bellingham, WA in Nov 2008
- 91 units have been procured and are being delivered at rate of 4 per month
- IOC was April 2011; Installs continue until Jul 2014

Procurement & Installation Plan

- MF Van assets are being staged at Lakehurst until required for install
- 1 unit per planned for each TW-05/A & TW-06/B, Tire & Wheel Van set
  - 13 MALS vans
  - 6 MPS vans (Note validating requirement for 7th MF at Blount Island
- Allocations provided for 5 units MALS TSA 500 Division to be installed at hard site locations at (MALS TSA 11/14/26/29/39)

Agitated Solvents Parts Washer MALS Vans Locations

Agitated Solvents Parts Washer NIIN 01-572-9921			SEMS 500 Div	QTY
AAI	ACTIVITY NAME	LOCATION	TW 05A / 06B	Procured
MAL11	MALS-11 MAG-11	MIRAMAR	1	1
MAL12	MALS-12 MAG-12	IWAKUNI	1	1
MAL13	MALS-13 MAG-13	YUMA	1	1
MAL14	MALS-14 MAG-14	CHERRY POINT	1	1
MAL16	MALS-16 MAG-16	MIRAMAR	2	2
MAL24	MALS-24 MAG-24	KANEOHE BAY	1	1
MAL26	MALS-26 MAG-26	CHERRY POINT	1	1
MAL29	MALS-29 MAG-29	CHERRY POINT	1	1
MAL31	MALS-31 MAG-31	BEAUFORT	1	1
MAL36	MALS-36 MAG-36	OKINAWA	1	1
MAL39	MALS-39 MAG-39	CAMP PENDLETON	2	2
MAL41	MALS-41 MAG-41	JRB FT WORTH	1	1
4MAWRW	MALS-49 ANG	STEWART ANG	1	1
MAL11T	MALS-11 TSA	MIRAMAR	1	1
4574H	MPS (1)		6	6
(1) - Validating requirement for 7th MPS		**TOTAL:**	**22**	**22**
site at BIC.		**TOTAL MFS:**	**TW-05/A & 06B=22**	

Agitated Solvents Parts Washer MALS Vans Locations

Agitated Solvents Parts Washer NIIN 01-572-9921			SEMS 500 Div	QTY
AAI	ACTIVITY NAME	LOCATION	TW 05A / 06B	Procured
MAL11	MALS-11 MAG-11	MIRAMAR	1	1
MAL12	MALS-12 MAG-12	IWAKUNI	1	1
MAL13	MALS-13 MAG-13	YUMA	1	1
MAL14	MALS-14 MAG-14	CHERRY POINT	1	1
MAL16	MALS-16 MAG-16	MIRAMAR	1	1
MAL24	MALS-24 MAG-24	KANEOHE BAY	1	1
MAL26	MALS-26 MAG-26	CHERRY POINT	1	1
MAL29	MALS-29 MAG-29	CHERRY POINT	1	1
MAL31	MALS-31 MAG-31	BEAUFORT	1	1
MAL36	MALS-36 MAG-36	OKINAWA	1	1
MAL39	MALS-39 MAG-39	CAMP PENDLETON	1	1
MAL41	MALS-41 MAG-41	JRB FT WORTH	1	1
4MAWRW	MALS-49 ANG	STEWART ANG	1	1
4574H	MPS (1)		6	6
(1) - Validating requirement for 7th MPS		**TOTAL:**	**19**	**19**
site at BIC.		**TOTAL MFS:**	**TW-05/A & 06B = 19**	

Aqueous Sinks Parts Washer
NIIN: 01-570-3858

Overview

- Sink-type Aqueous Parts Washer which uses aqueous based solution for manual hand-cleaning of light to moderate dirt, grime, oil, and grease from steel components
- Will be used in Intermediate maintenance 900 (GSE), 500 (Airframes), and 400 (Power Plants) shops
- Will be installed at Intermediate maintenance shore based 400, 500 & 900 Divisions, and shipboard 400 and 900 Divisions
- New capability that does not replace any legacy sink parts washers

Solution

- Fleet surveys indicate that the large parts washer in the 500 Division should be replaced with a like item while the rest of the AIMD would be better satisfied with smaller, sink type units (FY09 Acquisition) both afloat and ashore
- Contract awarded to Graymills , Chicago, IL in Oct 2008
- 188 units have been procured and are being delivered (40) per month

Procurement & Installation Plan

- IOC April 2011; Installs occur until Jul 2014
- MF assets are being staged at Lakehurst until required for install by North Island / LKE install team.
  - (1) unit per TW-05/A & TW-06/B, tire and wheel Van - 14 van sets.
  - (1) unit per PP-04BM, Power Plants Van – 7 van sets
    - Only 7 PP-04BM MFs in inventory.
  - Allocations provided for 14 units.
    - No MFs at 7 sites.
    - Validating requirement within SEMS.
  - (1) unit per WC-08 -14 van sets

Aqueous Sinks Parts Washer
NIIN: 01-570-3858

Overview

- Sink-type Aqueous Parts Washer which uses aqueous based solution for manual hand-cleaning of light to moderate dirt, grime, oil, and grease from steel components
- Will be used in Intermediate maintenance 900 (GSE), 500 (Airframes), and 400 (Power Plants) shops
- Will be installed at Intermediate maintenance shore based 400, 500 & 900 Divisions, and shipboard 400 and 900 Divisions
- New capability that does not replace any legacy sink parts washers

Solution

- Fleet surveys indicate that the large parts washer in the 500 Division should be replaced with a like item while the rest of the AIMD would be better satisfied with smaller, sink type units (FY09 Acquisition) both afloat and ashore
- Contract awarded to Graymills , Chicago, IL in Oct 2008
  - 188 units have been procured and are being delivered (40) per month
  - IOC April 2011; Installs occur until Jul 2014

Procurement & Installation Plan

- 1 unit per TW-05/A & TW-06/B Tire & Wheel Van set
  - 13 MALS vans
  - MPS is tailored to zero in SEMS. Currently reviewing rationale
- 1 unit per PP-04BM, Power Plants Van – 7 van sets
  - Note SEMS incorrectly identifies allocations for 14 units which is being corrected
  - 1 unit per WC-08, GSE Van – 13 van sets
  - Note: working with ASL to determine if additional sink parts washers should be procured to outfit other 2 WC-08 vans at each MALS or fund re-designation of a new van
  - 5 Assets provided for MALS TSA 500 Division hard site installs (MALS TSA 11/14/26/29/39)

Aqueous Sinks Parts Washer MALS Vans Locations

Aqueous Sinks Parts Washer NIIN 01-570-3858			SEMS 500 Div	SEMS 400 Div	SEMS 900Div	QTY
AAI	ACTIVITY NAME	LOCATION	TW 05A / 06B	PP-04BM	WC-08	Procured
MAL11	MALS-11 MAG-11	MIRAMAR	1	0	1	3
MAL12	MALS-12 MAG-12	IWAKUNI	1	0	1	3
MAL13	MALS-13 MAG-13	YUMA	1	0	1	3
MAL14	MALS-14 MAG-14	CHERRY POINT	1	0	1	3
MAL16	MALS-16 MAG-16	MIRAMAR	1	1	1	3
MAL24	MALS-24 MAG-24	KANEOHE BAY	1	1	1	3
MAL26	MALS-26 MAG-26	CHERRY POINT	1	1	1	3
MAL29	MALS-29 MAG-29	CHERRY POINT	1	1	1	3
MAL31	MALS-31 MAG-31	BEAUFORT	1	0	1	3
MAL36	MALS-36 MAG-36	OKINAWA	1	1	1	3
MAL39	MALS-39 MAG-39	CAMP PENDLETON	1	1	1	3
MAL41	MALS-41 MAG-41	JRB FT WORTH	1	0	1	3
4MAWRW	MALS-49 ANG	STEWART ANG	1	1	1	3
MAL11T	MALS-11 TSA	MIRAMAR	1	0	0	3
(1) - Validating requirement within SEMS		**TOTAL:**	**14**	**7 (1)**	**13**	**42**

Aqueous Sinks Parts Washer MALS Vans Locations

Aqueous Sinks Parts Washer NIIN 01-570-3858			SEMS 500 Div	SEMS 400 Div	SEMS 900Div	QTY
AAI	ACTIVITY NAME	LOCATION	TW 05A / 06B	PP-04BM	WC-08	Procured
MAL11	MALS-11 MAG-11	MIRAMAR	1	0	1	3
MAL12	MALS-12 MAG-12	IWAKUNI	1	0	1	3
MAL13	MALS-13 MAG-13	YUMA	1	0	1	3
MAL14	MALS-14 MAG-14	CHERRY POINT	1	0	1	3
MAL16	MALS-16 MAG-16	MIRAMAR	1	1	1	3
MAL24	MALS-24 MAG-24	KANEOHE BAY	1	1	1	3
MAL26	MALS-26 MAG-26	CHERRY POINT	1	1	1	3
MAL29	MALS-29 MAG-29	CHERRY POINT	1	1	1	3
MAL31	MALS-31 MAG-31	BEAUFORT	1	0	1	3
MAL36	MALS-36 MAG-36	OKINAWA	1	1	1	3
MAL39	MALS-39 MAG-39	CAMP PENDLETON	1	1	1	3
MAL41	MALS-41 MAG-41	JRB FT WORTH	1	0	1	3
4MAWRW	MALS-49 ANG	STEWART ANG	1	1	1	3
(1) - Validating requirement within SEMS		**TOTAL:**	**13**	**7 (1)**	**13**	**42**

Hydraulic Tube Bender

Overview

- Provides I level capability to bend tubing of various materials (SS, Ti, Al) to a wide range of radii
- Current Legacy benders: CL-215 (shipboard/MF) & A/E27M-9 Pines (FRCs) are obsolete and unsupportable
- Contract awarded to PHI-Tulip for a Land based unit and a CVN/MALS unit differing only in length and operational environment
- Both units have common tooling, logistics & training

Installation on CVN68

Additional Information

- Land based FRC unit (NIIN: 01-564-9322) is capable of bending tubing up to a 8 ft nominal length
- CVN/non-V22 MALS MF unit (NIIN: 01-565-8816) capable of bending tubing up to 5 ft nominal
- PMA260 will provide tooling to allow the use of the V22 PSE bender (Pines) for other aircraft and SE applications on L-Class ships

Procurement & Installation Plan

- Procurement Quantities
  - Land based FRC unit – 24
  - CVN/non-V22 MALS MF unit - 21
    - (11 CVNs, 10 MALS)
- Installations started in FY11
- SEMS Allocation: MALS11, 11T, 12, 13, 14, 14T, 31, 39T, 41, 49

Hydraulic Tube Bender Further Discussion

Background on Selection of the CSE Bender vs V22 Bender:

- Initial Desire was to have a common bender and the purchase of the V22 Bender was investigated
- The V22 bender contract was with Boeing, and not directly with the bender OEM, which prevented use of this contract to satisfy non-V-22 requirements
- Market research and a Request for Information identified multiple interested tube bender contractors in Industry which drove the competition requirement for the CSE procurement
- The V22 Bender OEM (Pines) bid on the CSE solicitation, but their pricing was 3 times more than the selected contractor's proposal (~$450K vs <$150K each)
    - Overall contract value difference was ~ $9M
- To support other aircraft on L-Class ships, PMA260 will:
    - Acquire tool/bend dies to support other aircraft tubing requirements
    - Obtain revised firmware to allow manual entry of data as identified by 3rd MAW

MF configuration for CSE Bender

- PMA260 concurs with installing the CSE bender in a double wide configuration
    - Labor funding may be available this FY
    - FY12 funding identified to procure MFs/Heat pumps

FY12 CSE Procurement New Starts with MF/MALS applications

A/F27T-12 Hydraulic Component Test Stand (HCTS)

Overview

- Provide intermediate level maintenance activities the capability to repair and RFI test aircraft hydraulic components
- Replace the A/F27T-10 HCTS - obsolete parts, decreasing reliability
- T10 no pump test capability
- Also replaces legacy HCT-10 Stands
- Cooling of bench for MF Vans was an after thought, not part of original acquisition of the A/F27T-10 HCTS

Existing A/F27T-10 HCTS

Solution

- Replace T10 HCTS with more manual stand. The suite of equipment will include:
  - Main Hydraulic Console (MHC) for all IMAs
  - Pump and Motor test Console (P&MTC) for selected FRCs
  - Hydraulic Fluid Cooling System for MALS

Procurement & Delivery Plan

- 76 Activities, MHCs at all activities including MALS (HFCS included), 5-6 P&MTCs
- 14 units allocated for MF Van requirements to replace the T10 currently installed in HY04A/HY05B
- First production delivery – FY14

PMA 260C CSE Summary

- The PMA 260C Team Provides life cycle management of CSE
- Procurement initiatives are based on SECA prioritization